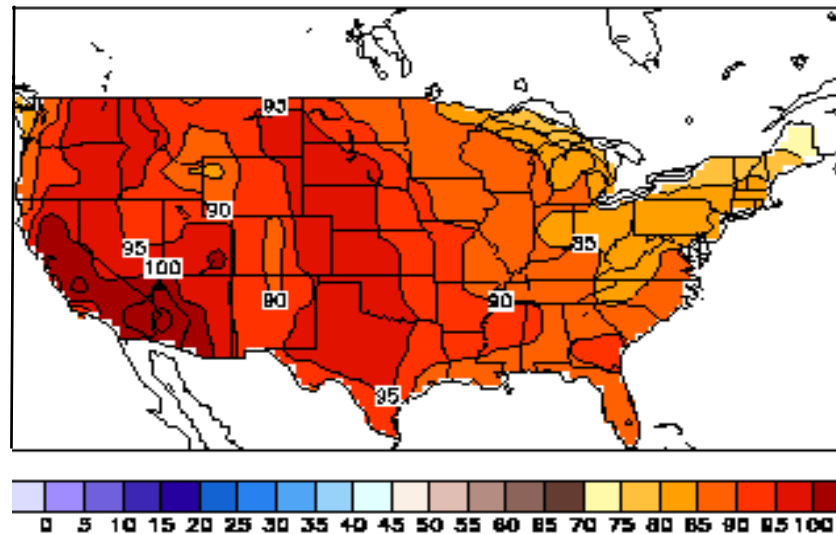




July 2006 Heat Storm Workshop Temperature and Other Issues Impacting Load

Max Temperature (F)
07 24 2006

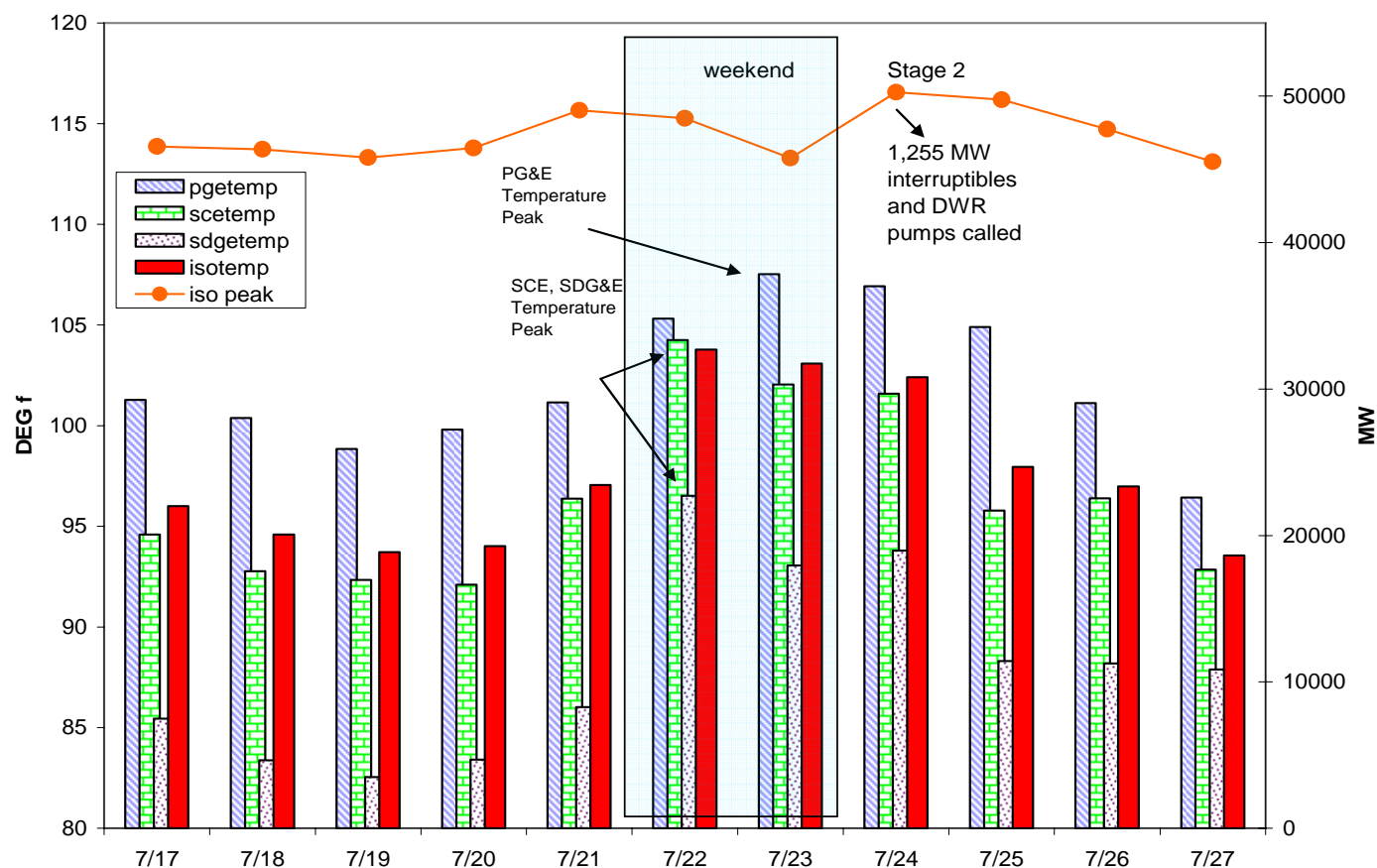


Electricity Committee Workshop
August 29, 2006
California Energy Commission
Demand Analysis Office



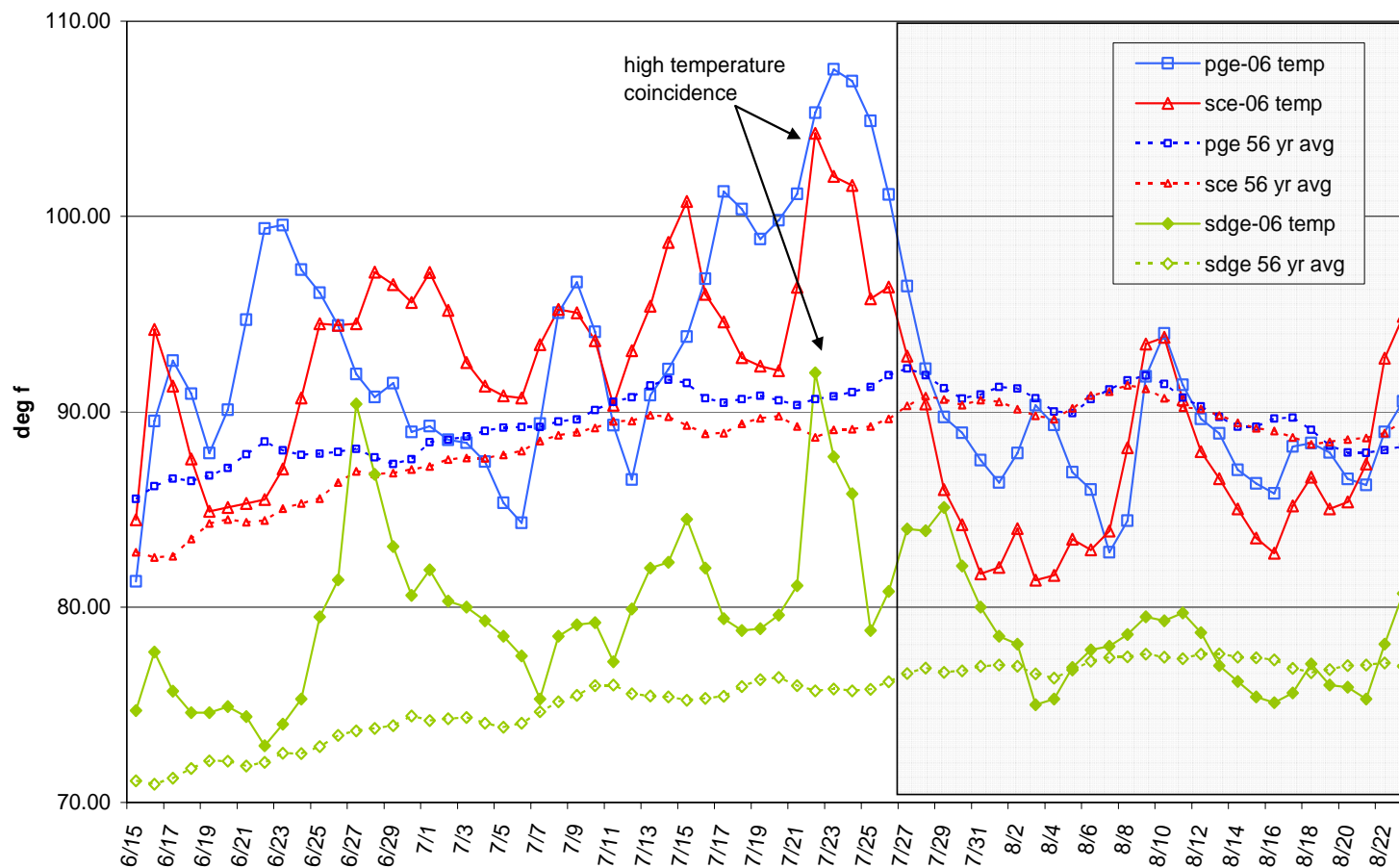
Summer 2006 Heat Storm, July 17-27

CA ISO Peak Loads and Temperatures



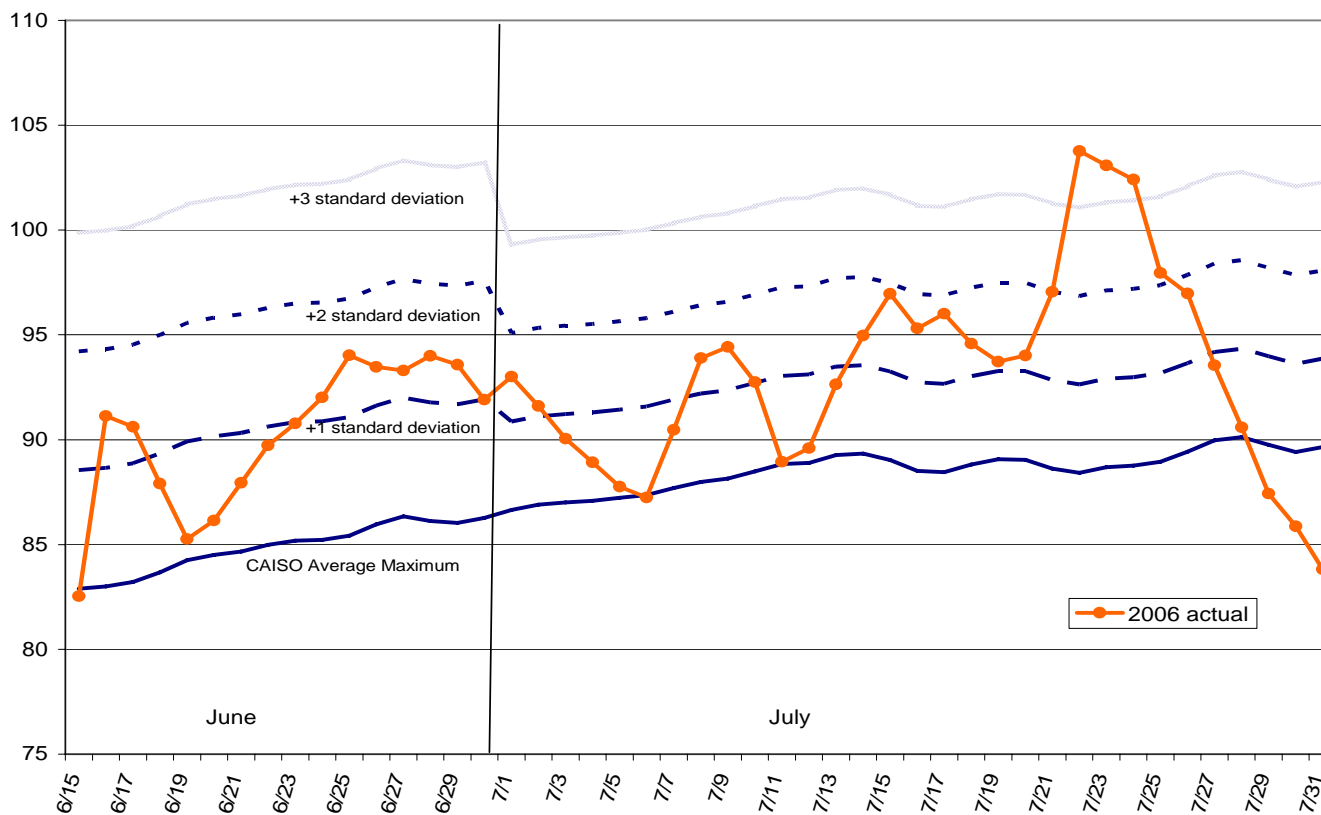


High Temperatures in all Regions





CA ISO Temperature Above Normal 6/15—7/27

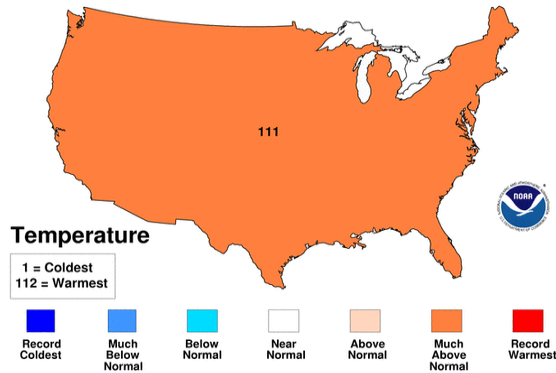




Temperature Geographic Gradation

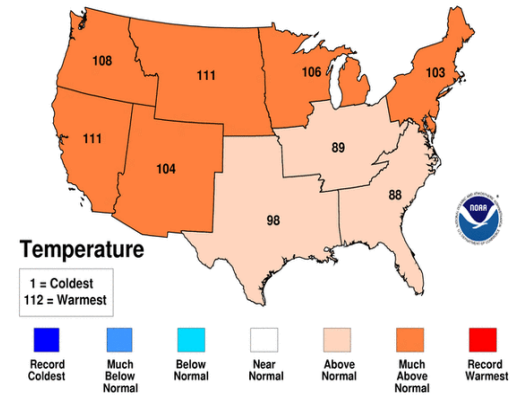
July 2006 National Rank

National Climatic Data Center/NESDIS/NOAA



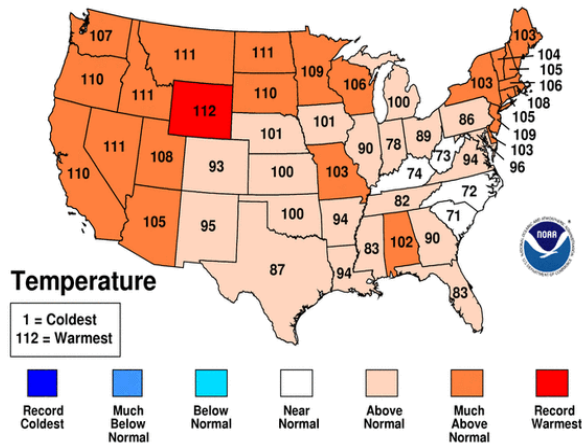
July 2006 Regional Ranks

National Climatic Data Center/NESDIS/NOAA



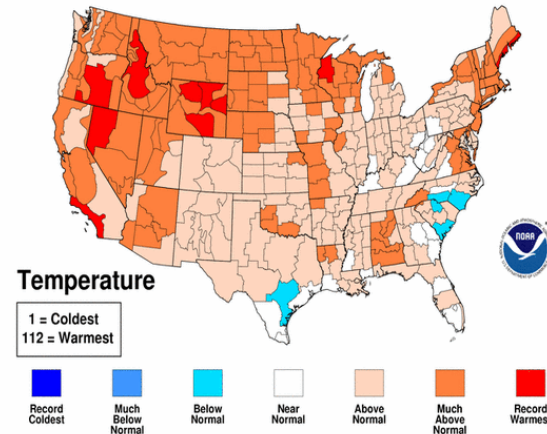
July 2006 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



Jul 2006 Divisional Ranks

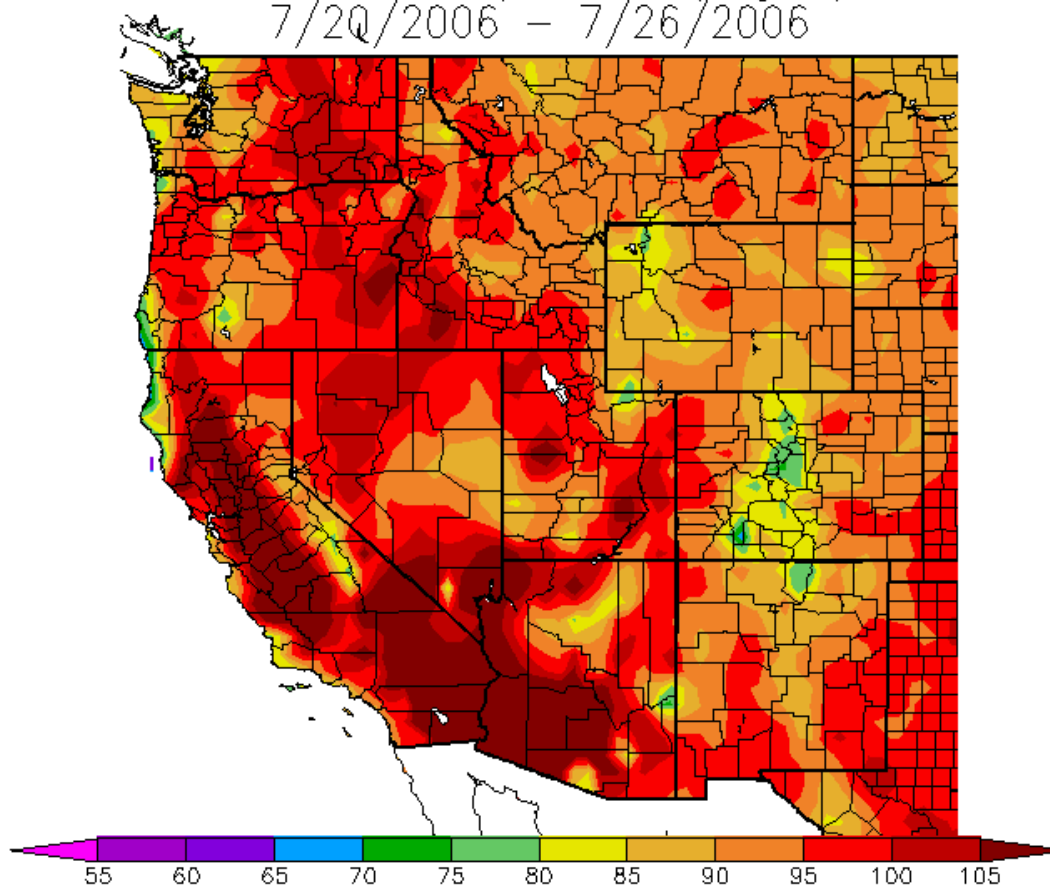
National Climatic Data Center/NESDIS/NOAA





Actual Gradation of Temperature Related Load

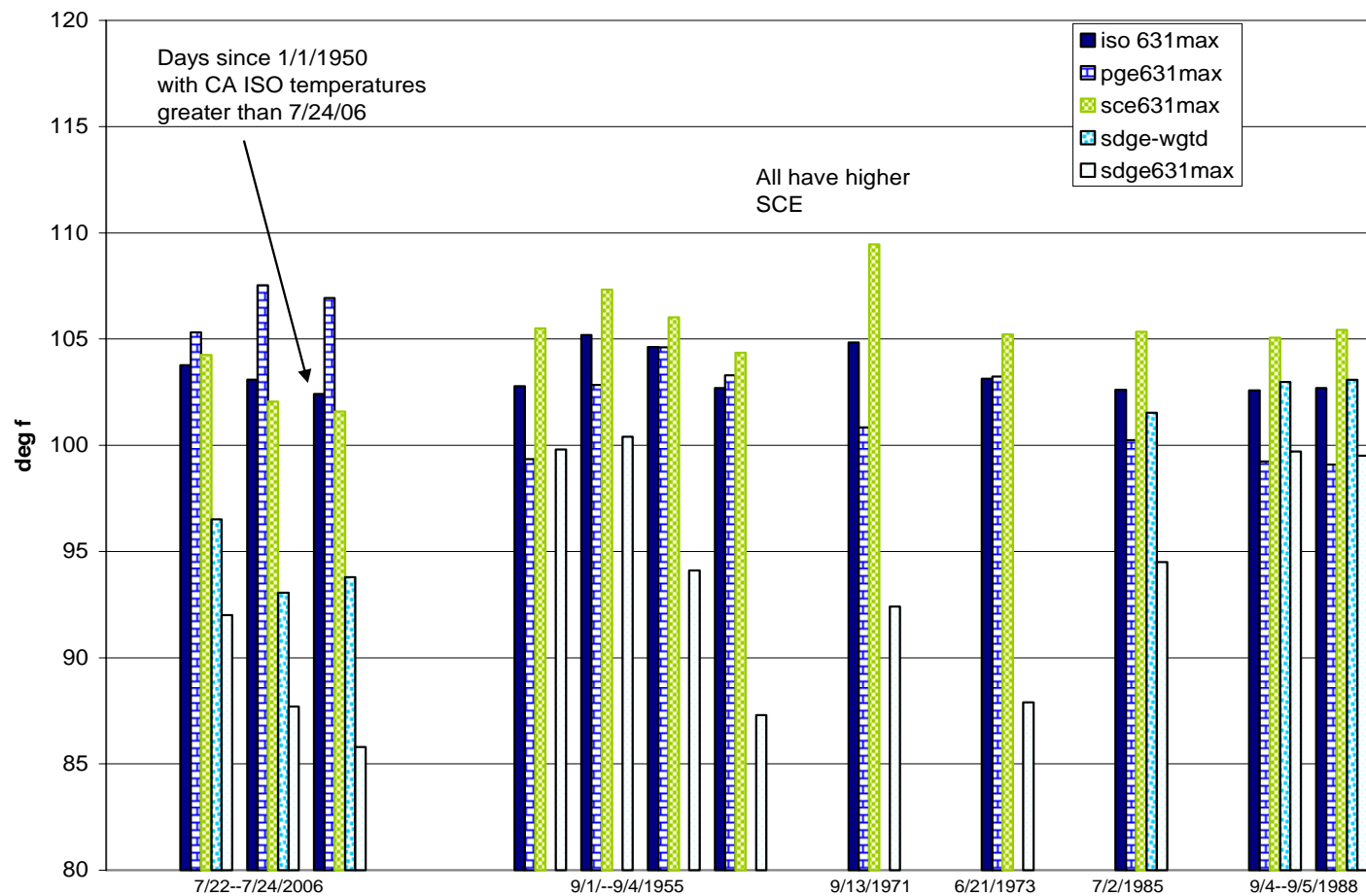
Av. Max. Temperature (deg. F)
7/20/2006 – 7/26/2006



Generated 8/25/2006 at WRCC using provisional data.
NOAA Regional Climate Centers

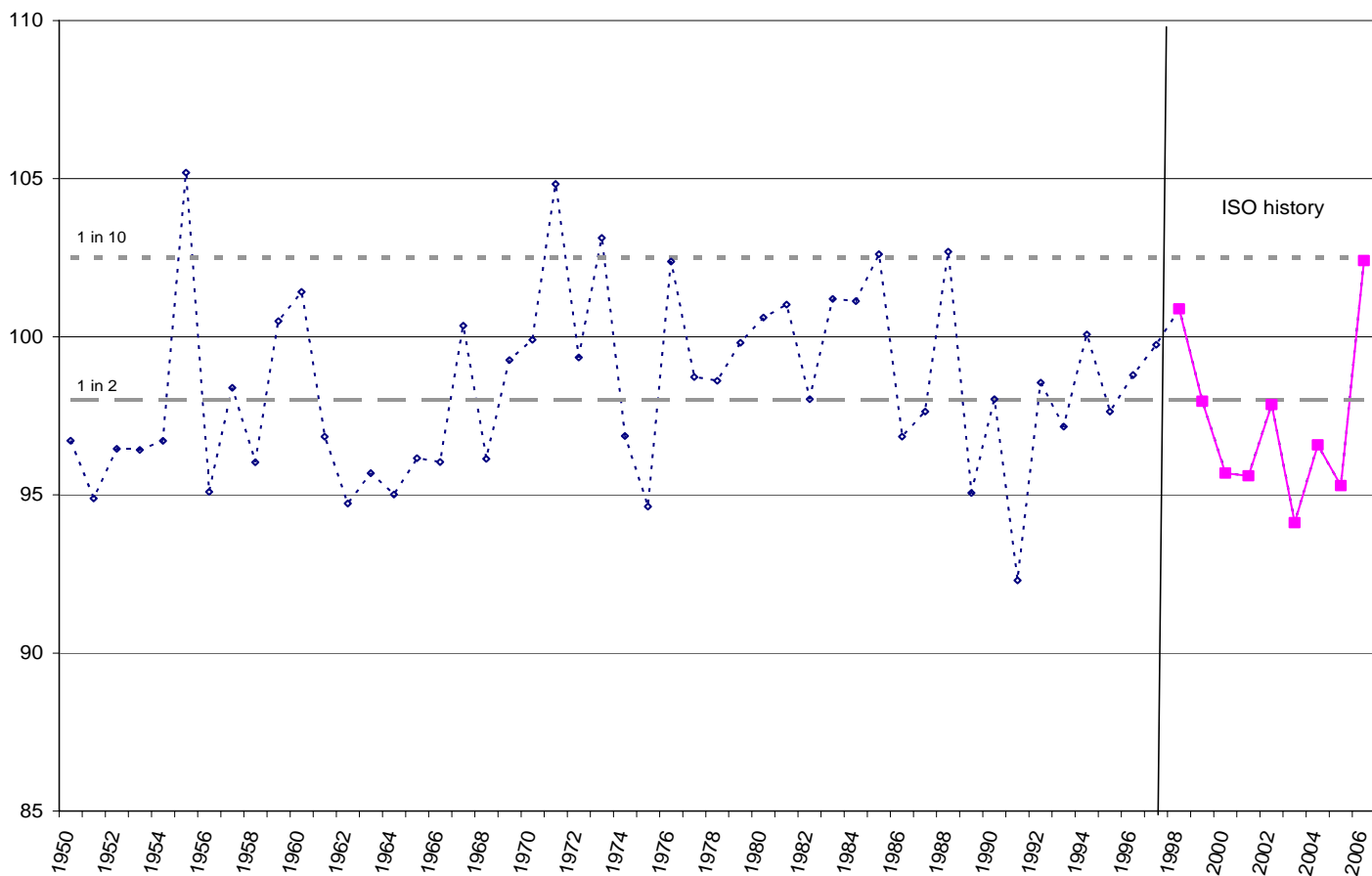


Historic Perspective



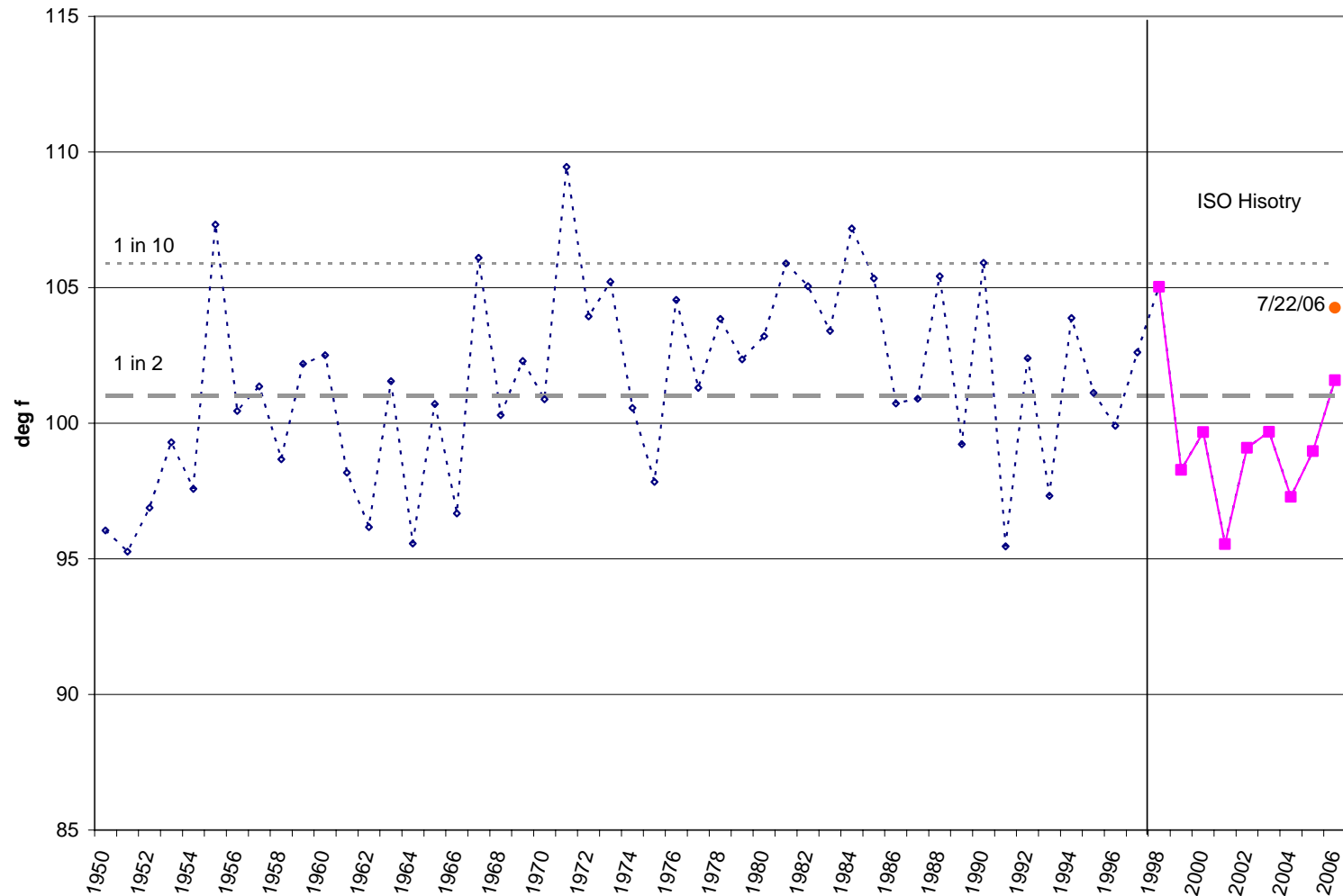


1950-2006 CA ISO Area Annual Maximum Temperatures



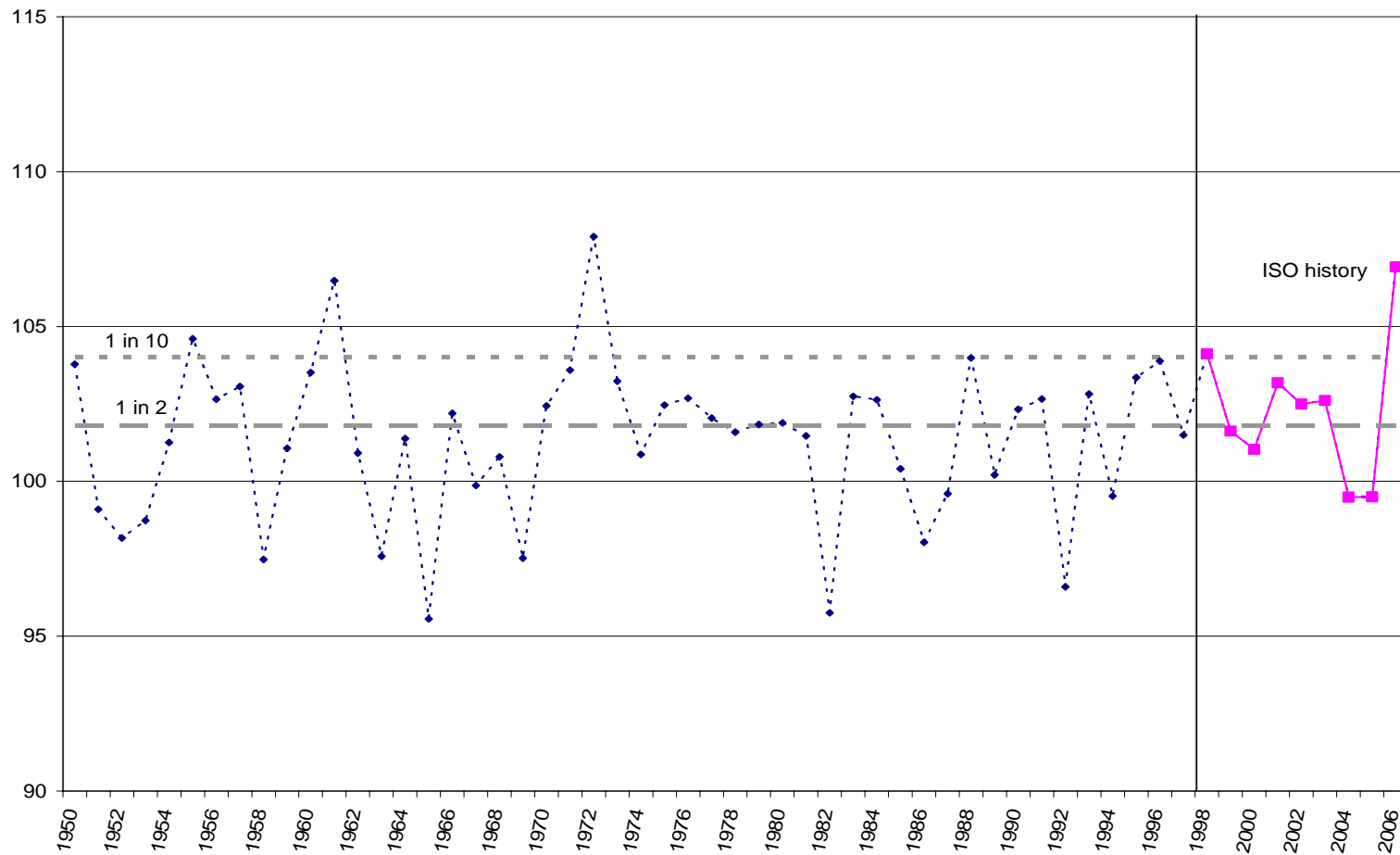


1950-2006 SCE Area Annual Maximum Temperatures





1950-2006 PG&E Area Annual Maximum Temperatures





Previous Temperature - Forecast Interaction Analysis

**High Temperatures & Electricity Demand
(An Assessment of Supply Adequacy in California)
CEC Staff July 1999**

http://energy.ca.gov/electricity/1999-07-23_HEAT_RPT.PDF

**SP26 1 in 10 Weather Adjustment Methodology
Electricity Committee Workshop March 21, 2005**

http://energy.ca.gov/2005_summer_outlook/documents/2005-03-21_workshop/presentations/GORIN_TOM_032105.PDF

**Revised Forecast of 2007 Peak Demand
Electricity Committee Workshop June 5, 2006**

<http://energy.ca.gov/2006publications/CEC-400-2006-008/CEC-400-2006-008-SF.PDF>

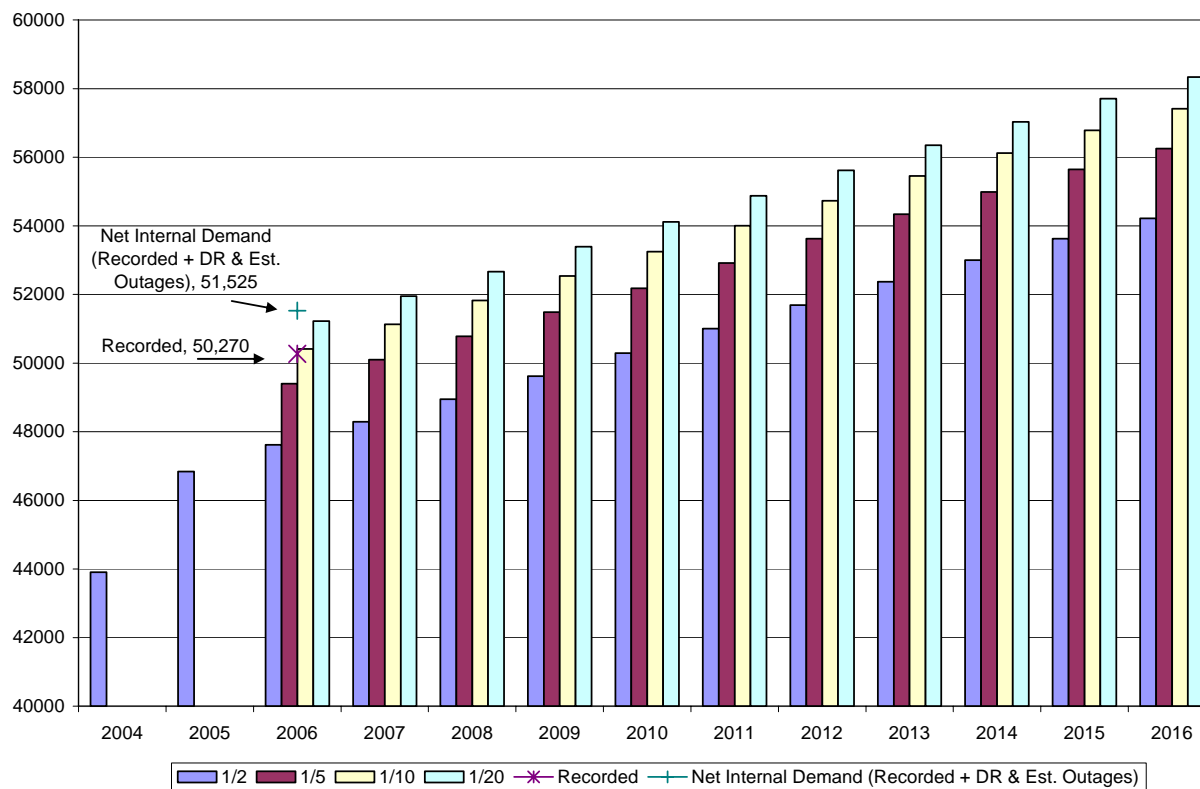


2006 Planning Area Forecast Normal and Adverse Weather Scenarios (2005 IEPR Staff Forecast Form 1.5 & June 2006 Revised Forecast)

Planning Area	1-2	1-5	1-10	1-20
PG&E	22,070	22,553	22,894	23,305
SMUD	2,995	3,132	3,297	3,405
SCE	22,791	23,778	24,385	24,798
LADWP	5,779	6,107	6,168	6,181
BGP	889	935	949	956
SDG&E	4,384	4,793	4,951	5,009
Other	1,184	1,265	1,297	1,308
DWR	915	915	915	915
Statewide Noncoincident Peak	61,008	63,478	64,855	65,876



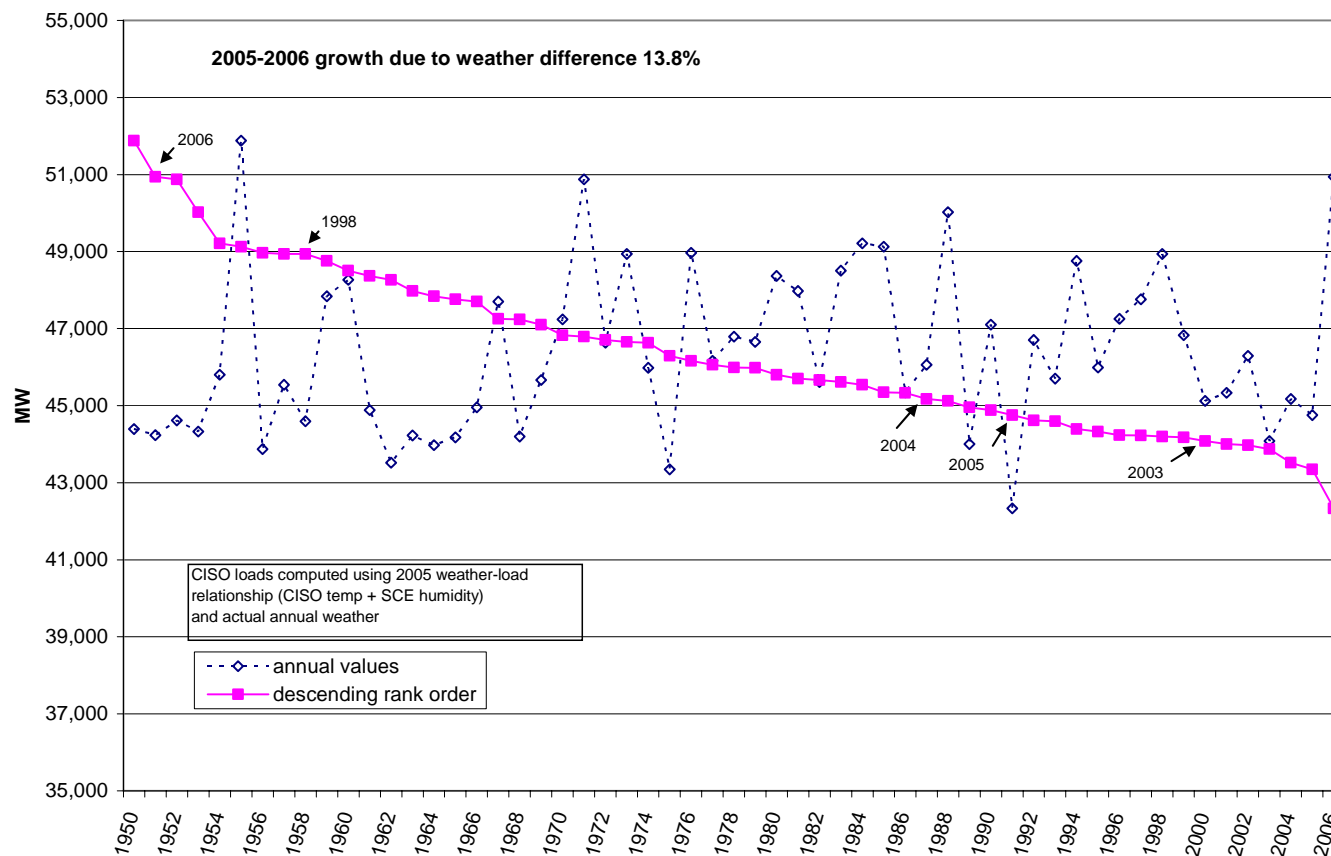
CA ISO Non-coincident Peak Forecast Normal and Adverse Weather Scenarios (2005 IEPR Staff Forecast Form 1.5 & June 2006 Revised Forecast)





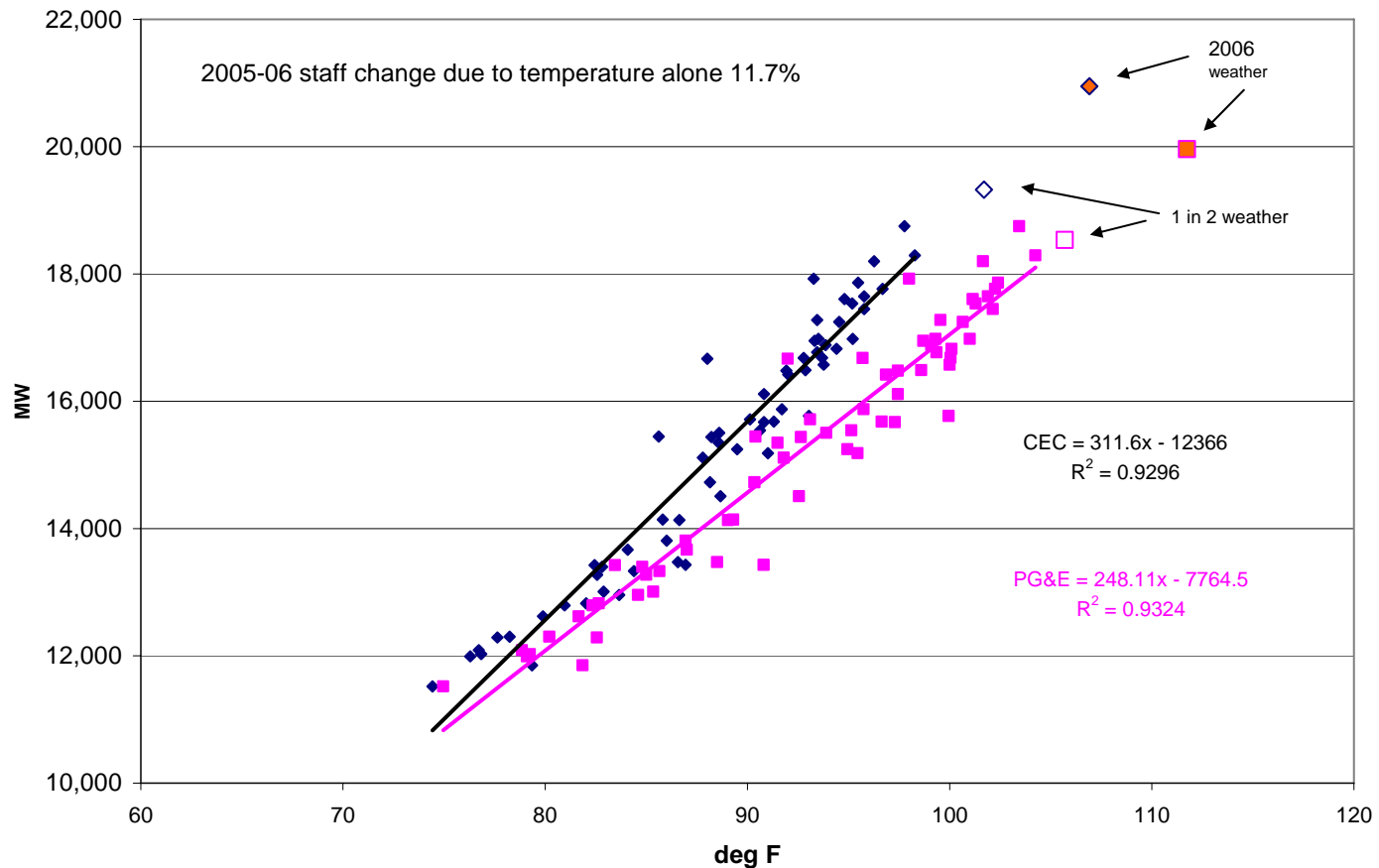
CA ISO Estimated Peak Variability

(Based on 1950-2006 Weather and 2005 Temperature Response)



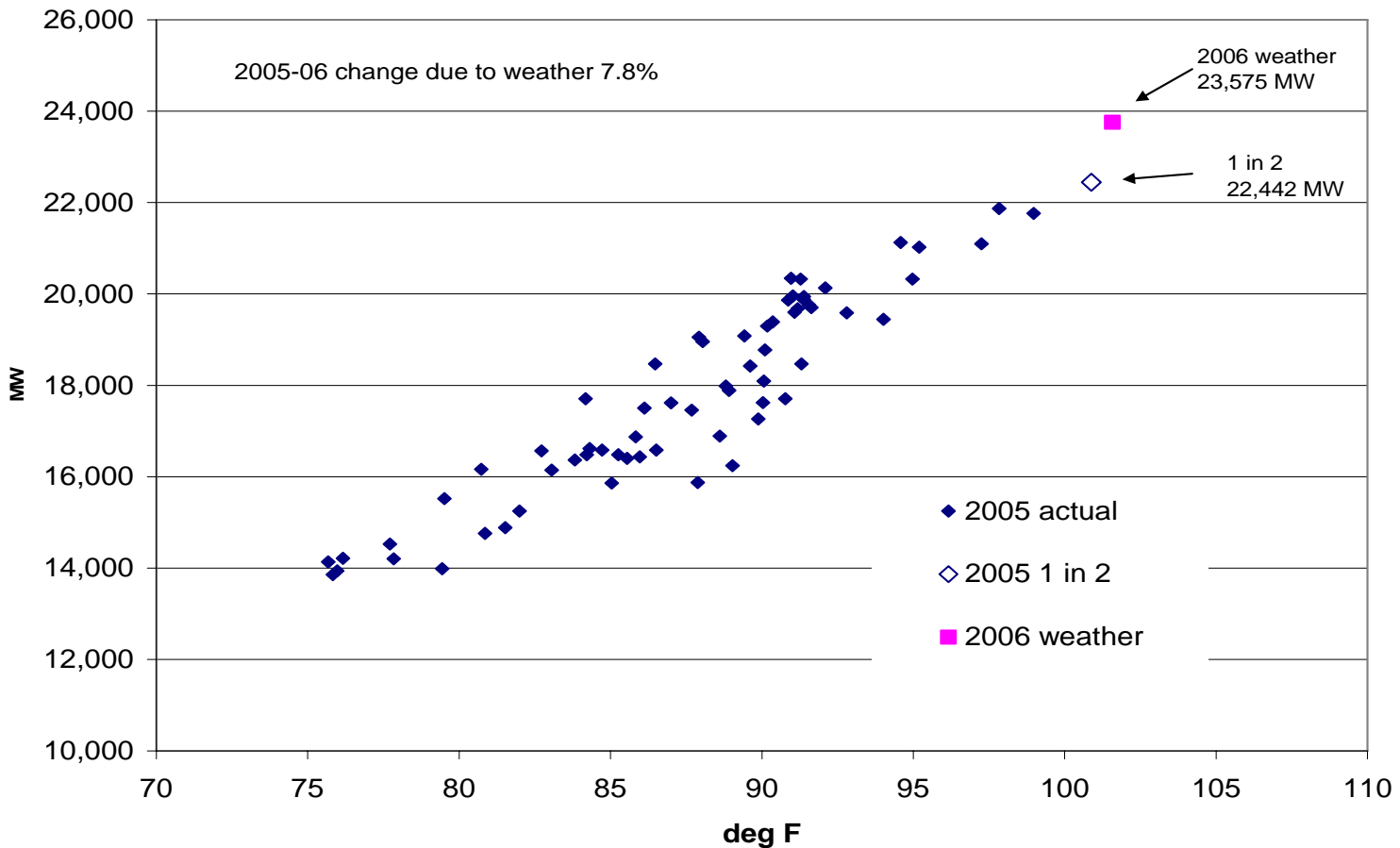


PG&E Estimated 2005-06 Peak Growth due to Year over Year Temperature Differences



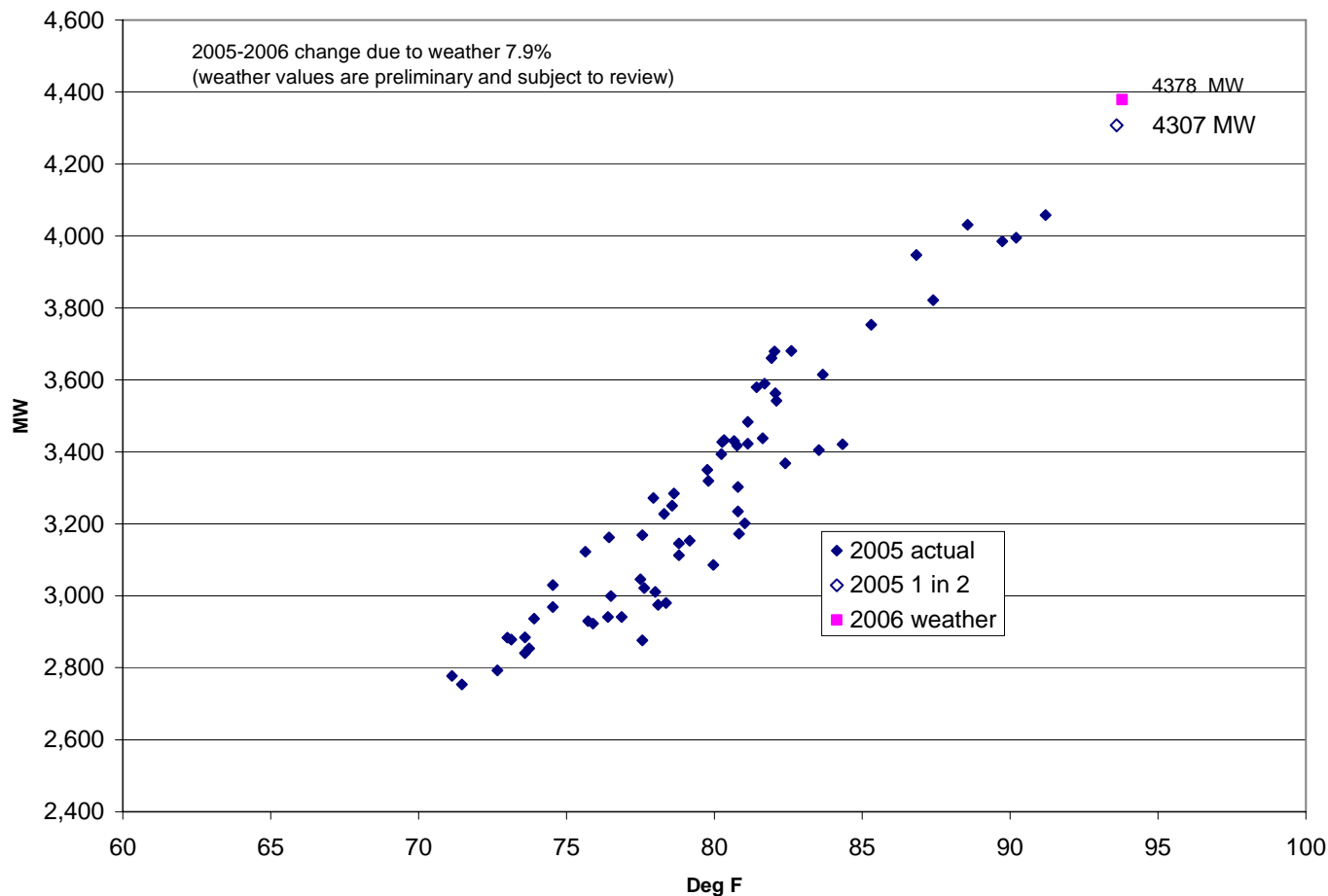


SCE Estimated 2005-06 Peak Growth due to Year over Year Temperature Differences





SDG&E Estimated 2005-06 Peak Growth due to Year over Year Temperature Differences (based on Monday 7/24/06 temperature)





2006 Daily Peaks are Within Reasonable Forecast Bounds of the Revised 2005 Forecast

2006 ISO summer peak tracking
(estimate is based on 2005 weather-load regression results and actual 2006 observed temps with 1.55% 05-06 growth)

